

Claim Amendments

1. (Currently Amended) A single action mop wringer, comprising:
 - a. a housing including a front wall having a multiplicity of openings, a rear wall, a first sidewall having a lower edge, an upper edge and a parallel oppositely disposed second sidewall having a lower edge and upper edge, and an open top and open bottom;
 - b. a first channel formed into said first sidewall, the first channel having a first arcuate section extending in one direction toward said rear wall and adjacent the upper edge, and extending in said opposite direction to a first vertically aligned second section terminating at a distance above the lower edge of said first sidewall;
 - c. a second channel formed into said first sidewall, the second channel having a second arcuate section extending in one direction toward said front wall and said upper edge, and extending in said opposite direction to a second vertically aligned section terminating at a distance above the lower edge of said first sidewall, the first vertically aligned second section and the second vertically aligned second section being spaced apart and parallel to ~~the one~~ each other and having the same vertical distance from their respective arcuate sections to the distance above the lower edge of said first sidewall;
 - d. a first channel formed into said second sidewall, the first channel in said second sidewall being the same shape as and parallel to the first channel formed into said first sidewall, the first channel formed into said second sidewall having a corresponding arcuate section and a corresponding vertical section;
 - e. a second channel formed into said second sidewall, the second channel in said second sidewall being the same shape as and parallel to the second channel formed into said first sidewall, the second channel formed into said second sidewall having a corresponding arcuate section and a corresponding vertical section;

- f. a first roller rotatably supported on a pin and adjacent said upper edge of said first and second sidewalls, the pin having a front end and extending through said first arcuate section of said first channel in said first sidewall and a rear end extending through a first arcuate section in said first channel in said second sidewall;
- g. a second roller spaced from and parallel to said first roller, said second roller rotatably supported on a pin and adjacent said upper edge of said first and second sidewalls, the pin having a front end extending through said second arcuate section of said second channel in said first sidewall and a rear end extending through a second arcuate section in said second channel in said second sidewall;
- h. a horizontally aligned movable platform disposed adjacent said first sidewall, the movable platform having a first bracket with an opening adjacent one of its ends and a parallel oppositely disposed second bracket with an opening adjacent its opposite end;
- i. a first arm having an elongated shaft and with a base at one end having a pair of oppositely disposed pins which are inserted in and rotatably supported by the opening in said first bracket and a collar with an opening at the opposite end of the shaft, the opening of the collar inserted onto said first end of said pin supporting said first roller;
- j. a second arm having an elongated shaft and a base at one end having a pair of oppositely disposed pins which are inserted in and rotatably supported by the opening in said second bracket and a collar with an opening at the opposite end of the shaft, the opening of the collar inserted onto said first end of said pin supporting said second roller;
- k. said movable platform having a centrally disposed handle base, an elongated handle supported in said handle base at one end and having a grip member at its opposite end;
- l. a spring base affixed to said first sidewall adjacent its lower edge and a return spring affixed between said spring base at one end and affixed to said horizontal

platform and its opposite end; and

- m. a tie bar having a central collar with a spring therein, a first tie shaft supported at one end of said spring and connected to said rear end of said pin supporting said first roller at its opposite end, and a second tie shaft supported at the opposite end of said spring and connected to said rear end of said pin supporting said second roller at its opposite end;
- n. whereby, said housing is positioned on a water bucket so that the lower edges of the first and second sidewalls are adjacent the water bucket and the strands of a wet mop are positioned first above the housing to a location between said rollers and a downward force on said handle causes said movable platform to move downwardly which in turn causes said first and second arms to cause said pins supporting said rollers to respectively move along said first and second channels in said first sidewall where the tie bar causes the opposite ends of said pins supporting said rollers to move along the first and second channels in said second sidewall, thereby causing said rollers to come together and rollably move along the strands of the mop to wring water out of the mop, the water going through the open bottom of this housing and through the openings in the front wall into the water bucket, and when the downward force is released, the return spring causes the movable platform, the rollers and their respective pins to return to their starting position.

2-3 Cancelled

4. (Currently Amended) A single action mop wringer, comprising:

- a. a housing including a front wall, a rear wall, a first sidewall having a lower edge, an upper edge and a parallel oppositely disposed second sidewall having a lower edge and an upper edge, and an open top and open bottom;
- b. a first channel formed into said first sidewall, the first channel having a first

arcuate section extending in one direction toward said rear wall and adjacent the upper edge, and extending in said opposite direction to a first vertically aligned second section terminating at a distance above the lower edge of said first
sidewall;

c. a second channel formed into said first sidewall, the second channel having a second arcuate section extending in one direction toward said front wall and said upper edge, and extending in said opposite direction to a second vertically aligned section terminating at a distance above the lower edge of said first sidewall, the first vertically aligned second section and the second vertically aligned second section being spaced apart and parallel to ~~the one~~ each other and having the same vertical distance from their respective arcuate sections to the distance above the lower edge of said first sidewall;

d. a first channel formed into said second sidewall, the first channel in said second sidewall being the same shape as and parallel to the first channel formed into said first sidewall, the first channel formed into said second sidewall having a corresponding arcuate section and a corresponding vertical section;

e. a second channel formed into said second sidewall, the second channel in said second sidewall being the same shape as and parallel to the second channel formed into said first sidewall, the second channel formed into said second sidewall having a corresponding arcuate section and a corresponding vertical section;

f. a first roller rotatably supported on a pin and adjacent said upper edge of said first and second sidewalls, the pin having a front end and extending through said first arcuate section of said first channel in said first sidewall and a rear end extending through a first arcuate section in said first channel in said second sidewall;

g. a second roller spaced from and parallel to said first roller, said second roller rotatably supported on a pin and adjacent said upper edge of said first and second sidewalls, the pin having a front end extending through said second arcuate

35 section of said second channel in said first sidewall and a rear end extending
through a second arcuate section in said second channel in said second sidewall;

h. a horizontally aligned movable platform disposed adjacent said first sidewall, the
movable platform having a first support means adjacent one end and an
oppositely disposed second support means at its opposite end;

40 i. a first arm having an elongated shaft and with means at one end to be rotatably
supported by the first means in the platform and means at the opposite end of the
shaft to be supported on the pin of said first roller;

j. a second arm having an elongated shaft with means at one end to be rotatably
supported by the second support means in the platform and means at the opposite
45 end of the shaft to be supported on the pin of said second roller;

k. a handle supported on said movable platform;

l. a spring base affixed to said first sidewall adjacent its lower edge and a return
spring affixed between said spring base at one end and affixed to said horizontal
platform and its opposite end; and

50 m. a tie bar having means to compressibly support a first shaft and a second shaft, the
shafts respectively connected to the rear end of said pin support of said first and
second rollers;

n. whereby, said housing is positioned on a water bucket so that the lower edges of
the first and second sidewalls are adjacent the water bucket and the strands of a
55 wet mop are positioned first above the housing to a location between said rollers
and a downward force on said handle causes said movable platform to move
downwardly which in turn causes said first and second arms to cause said pins
supporting said rollers to respectively move along said first and second channels
in said first sidewall where the tie bar causes the opposite ends of said pins
60 supporting said rollers to move along the first and second channels in said second
sidewall, thereby causing said rollers to come together and rollably move along
the strands of the mop to wring water out of the mop, the water going through the

open bottom of this housing and through the openings in the front wall into the water bucket, and when the downward force is released, the return spring causes the movable platform, the rollers and their respective pins to return to their starting position.

5-6 Cancelled

7. (Original) A single action mop wringer comprising:

- a. a housing including at least a first sidewall having a lower edge and an upper edge and a parallel oppositely disposed second sidewall having a lower edge and an upper edge and an open top;
- b. a first track formed into said first sidewall and a first track formed into said second sidewall, the tracks being the same shape and parallel to one another;
- c. a second track formed into said first sidewall, the second track spaced apart from the first track and being a mirror image of the first track;
- d. a second track formed into said second sidewall, the second track spaced apart from the first track and being a mirror image of the first track, the second track being the same shape and parallel to the second track in the first sidewall;
- e. a first roller rotatably supported on a pin and adjacent said upper edge of said first and second sidewalls, the pin having a front end extending through said first track in said first sidewall and a rear end extending through said first track in said second sidewall;
- f. a second roller rotatably supported on a pin and adjacent said upper edge of said first and second sidewalls, the pin having a front end extending through said second track in said first sidewall and a rear end extending through said second track in said second sidewall;
- g. the shape of the tracks formed so that the rollers are spaced apart when at the location adjacent the top of the sidewalls such that when the rollers are caused to

move downwardly along the tracks, a portion of the tracks in said first sidewall being vertically aligned and parallel to each other are spaced by a given distance and a portion of the tracks in said second sidewall being vertically aligned and parallel to each other are separated by the same distance as the distance between the vertically aligned portions of the tracks in the first sidewall;

- h. a horizontally aligned movable platform disposed adjacent said first sidewall and having a handle supported thereon, and rotatable means to support the horizontal platform on said front ends of said pin supporting said first roller and said pin supporting said second roller;
- i. means to movably interconnect the rear ends of said pin supporting said first roller and said pin supporting said second roller; and
- j. return spring means connected to said horizontally aligned movable platform;
- k. whereby, said housing is positioned on a water bucket so that the lower edges of the first and second sidewalls are adjacent the water bucket and the strands of a wet mop are positioned first above the housing to a location between said rollers and a downward force on said handle causes said movable platform to move downwardly which in turn causes said rotatable means which support the platform to cause said pins supporting said rollers to respectively move along said first and second tracks in said first sidewall where the means to movably interconnect the rear end of the pins causes said pins supporting said rollers to move along the first and second tracks in said second sidewall, thereby causing said rollers to come together and rollably move along the strands of the mop to wring water out of the mop, the water going through the housing into the water bucket, and when the downward force is released, the return spring causes the movable yoke assembly, the rollers and their respective pins to return to their starting position.

- 8. (Original) The single action mop ring in accordance with Claim 7, wherein said return spring is positioned below said horizontal platform.

12. (Currently Amended) A single action mop wringer comprising:

- a. a housing including at least a first sidewall having a lower edge and an upper edge and a parallel oppositely disposed second sidewall having a lower edge and an upper edge and an open top;
- b. a first track formed into said first sidewall and a first track formed into said second sidewall, the tracks being the same shape and parallel to one another;
- c. a second track formed into said first sidewall, the second track spaced apart from the first track and being a mirror image of the first track;
- d. a second track formed into said second sidewall, the second track spaced apart from the first track and being a mirror image of the first track, the second track being the same shape and parallel to the second track in the first sidewall;
- e. a first roller rotatably supported on a pin and adjacent said upper edge of said first and second sidewalls, the pin having a front end extending through said first track in said first sidewall and a rear end extending through said first track in said second sidewall;
- f. a second roller rotatably supported on a pin and adjacent said upper edge of said first and second sidewalls, the pin having a front end extending through said second track in said first sidewall and a rear end extending through said second track in said second sidewall;
- g. the shape of the tracks formed so that the rollers are spaced apart when at the location adjacent the top of the sidewalls such that when the rollers are caused to move downwardly along the tracks, a portion of the tracks in said first sidewall being vertically aligned and parallel to each other are spaced by a given distance and a portion of the tracks in said second sidewall being vertically aligned and parallel to each other are separated by the same distance as the distance between the vertically aligned portions of the tracks in the first sidewall;

- h. activation means comprising a handle and oppositely disposed movable arms, which respectively connect the activation means to the front end of the pin supporting said first roller and the front end of the pin rotatably supporting said second roller;
- i. means to movably interconnect the rear ends of said pin supporting said first roller and said ~~in pin~~ supporting said second roller, and
- j. return spring means connected to said activation means;
- k. whereby, said housing is positioned on a water bucket so that the lower edges of the first and second sidewalls are adjacent the water bucket and the strands of a wet mop are positioned first above the housing to a location between said rollers and a downward force on said handle causes said activation means to move downwardly which in turn causes said movable arms to cause said pins supporting said rollers to respectively move along said first and second tracks in said first sidewall where the means to movably interconnect the rear end of the pins causes said pins supporting said rollers to move along the first and second tracks in said second sidewall, thereby causing said rollers to come together and rollably move along the strands of the mop to wring water out of the mop, the water going through the housing into the water bucket, and when the downward force is released, the return spring causes the activation means, the rollers and their respective pins to return to their starting position.

13. (Currently Amended) The single action mop ringer in accordance with Claim 12, wherein said return spring is positioned below said ~~actuation~~ activation means.

14 - Cancelled